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United States
82269-2
Patents

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

IN RE APPLICATION

Serial Number:	09/465,705
Group Art Unit:	2662
Examiner:	David E. Odland
Title:	METHOD AND APPARATUS FOR ADJUSTING PACKET TRANSMISSION VOLUME FROM A SOURCE
Filing Date:	December 17, 1999
Inventors:	James Aweya; Delfin Y. Montuno; Michel Ouellette
Agent's ref:	82269-2

July 5, 2004

U.S. Commissioner of Patents and Trademarks
U.S. Patent and Trademark Office
Washington, D.C. 20231
United States

Dear Sir:

INFORMATION DISCLOSURE STATEMENT

This Information Disclosure Statement is being filed to satisfy the duty under 37 CFR 1.56 to disclose to the Office information, known to individuals associated with the filing and prosecution of the subject application, which may be material to the examination of the application.

A list of all patents, publications or other information submitted for consideration by the Office is hereby provided by way of the enclosed four (4) sheets of Form PTO/SB/08. Also enclosed are copies of references listed on the Form.

Page 1 of 2

This statement is not to be construed as a representation that a search has been made or an admission that the information cited herein is, or is considered to be, material to patentability as defined in 37 CFR 1.56(b).

It is respectfully requested that the information be expressly considered by the Examiner and that the references be made of record and appear among the "References Cited" on any patent to issue therefrom.

Applicant has not received a first Office action after filing a request for continued examination under 37 C.F.R. § 1.114, and therefore believes that no fee is required to file this statement. However, the Patent Office is hereby authorized to charge any fee, any fee deficiency, or credit any overpayment in fees, to our Deposit Account Number 06-0713.

Respectfully submitted,

John W. Knox, Reg. No. 35,776
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JWK:cmm
Encl.: Form PTO/SB/08
Copies of References Listed

PTO/SB/08B (10-01)

Approved for use through 10/31/2002. OMB 0651-0031
 U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT

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Sheet 2 of 4

Complete if Known

Application Number	09/465,705
Filing Date	December 17, 1999
First Named Inventor	James Awaya
Art Unit	2662
Examiner Name	
Attorney Docket Number	82269-2

OTHER PRIOR ART – NON PATENT LITERATURE DOCUMENTS

Examiner Initials *	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
	C1	OTT, Teunis J.; LAKSHMAN, T.V.; WONG, Larry H.; "SRED: Stabilized RED", INFOCOMM '99, Eighteenth Annual Joint Conference of the IEEE Computer and Communications Societies Proceedings, IEEE, June 1999, Volume 3, Pages 1346-1355	
	C2	FENG, Wu-Chang; KANDLUR, Dilip D.; SAHA, Debanjan; SHIN, Kang G.; "BLUE: A New Class of Active Queue Management Algorithms", U. Michigan CSE-TR-387-99, April 1999	
	C3	FENG, Wu-Chang; KANDLUR, Dilip D.; SAHA, Debanjan; SHIN, Kang G.; "Techniques for Eliminating Packet Loss in Congested TCP/IP Networks", U. Michigan CSE-TR-349-97, November 1997	
	C22	SRINIVASAN, V.; VARGHESE, G.; "Faster IP Lookups using Controlled Prefix Expansion", ACM Transactions on Computer Systems, pp. 1-10, June 1998	
	C23	EATHERTON, William N.; "ASIC Based IPV4 Lookups", Washington University, Applied Research Laboratory, pp. 1-22, June 23, 1998	
	C24	EATHERTON, William N.; "Hardware-Based Internet Protocol Prefix Lookups", Thesis, Washington University, pp. 1-100, May 1999	
	C25	SRINIVASAN, V.; VARGHESE, G.; "Fast Address Lookups Using Controlled Prefix Expansion", ACM Transactions on Computer Systems, Vol. 17, No. 1, pp. 1-40, February 1999	
	C26	FILIPPI, E.; INNOCENTI, V.; VERCELLONE, V.; "Address Lookup Solutions for Gigabit Switch/Router", Globecom '98, Sydney, Australia, November 1998	
	C27	DEGERMARK, Mikael; BRODNIK, Andrej; CARLSSON, Svante; PINK, Stephen; "Small Forwarding Tables for Fast Routing Lookups", Proc. of ACM SIGCOMM, pp. 3-14, September 1997	
	C28	DOERINGER, Willibald; KARJOTH, Gunter; NASSEHI, Medhi; "Routing on Longest-Matching Prefixes", IEEE/ACM Trans. On Networking, Vol. 4, No. 1, pp. 86-97, February 1996	
	C29	TZENG, Henry Hong-Yi; PRZYGIENDA, Tony; "On Fast Address-Lookup Algorithms": pp. 1067-1082, IEEE Journal On Selected Areas In Communications, Vol. 17, No. 6, June 1999	
	C30	TZENG, Henry Hong-Yi; "Longest Prefix Search Using Compressed Trees", Globecom '98, Sydney, Australia, November 1998	
	C31	KUMAR, Vijay P.; LAKSHMAN, T.V.; STILIADIS, Dimitrios; "Beyond Best Effort: Router Architectures for the Differentiated Services of Tomorrow's Internet, IEEE Communications Magazine, pp. 152-164, May 1998	

Examiner Signature	Date Considered
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Sheet 3 of 4

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	C32	GUPTA, Pankaj; LIN, Steven; McKEOWN, Nick; "Routing Lookups in Hardware at Memory Access Speeds", IEEE INFOCOM, April 1998	
	C33	NILSSON, Stefan; KARLSSON, Gunnar; "Fast Address Lookup for Internet Routers", IFIP Workshop on Broadband Communications, pp. 10-22, April 1998	
	C34	WALDVOGEL, Marcel; VARGHESE, George; TURNER, Jon; PLATTNER, Bernhard; "Scalable High Speed IP Routing Lookups", Proc. Of ACM SIGCOM, September 1997	
	C35	LAMPSON, B.; SRINIVASAN, V.; VARGHESE, G.; "IP Lookups Using Multiway and Multicolumn Search", pp. 1-23, August 1997	
	C36	ZITTERBART, M.; HARBAUM, T.; MEIER, D.; BROKELMANN, D.; "HearT: High Performance Routing Table Look Up", IEEE Workshop Architecture & Implementation of High Performance Communications Subsystems, Thessaloniki, Greece, June 1997	
	C37	FULLER, V.; LI, T.; YU, J.; VARADHAN, K.; "Classless Inter-Domain Routing (CIDR): an Address Assignment and Aggregation Strategy", RFC 1519, Internet Engineering Task Force, September 1993	
	C38	PEI, Tong Bi; ZUKOWSKI, Charles; "Putting Routing Tables in Silicon", IEEE Network Magazine, pp. 42-50, January 1992	
	C39	MORRISON, Donald R.; "PATRICIA - Practical Algorithm To Retrieve Information Coded in Alphanumeric", Journal of the Association for Computing Machinery, pp. 514-534, Vol. 15, No. 4, October 1968	
	C41	GHANI, Nasir; "Enhanced TCP/IP ACK Pacing for High Speed Networks", Proc. 16th Int'l Teletraffic Congress, Edinburgh, Scotland, June, 1999	
	C42	MA, Jian; "Improving TCP Performance in IP networks with Wireless links", IEEE, ICPWC '99, Jaipur, India, pp. 211-215	
	C43	NARVAEZ, Paolo; SIU, Kai-Yeung; "Acknowledgement bucket scheme for regulating TCP flow over ATM", Computer Networks and ISDN Systems, IEEE Globecom '97, Phoenix, Arizona, November, 1997 pp. 1775-1791	
	C44	NARVAEZ, Paolo; SIU, Kai-Yeung; "An Acknowledgement Bucket Scheme for Regulating TCP Flow over ATM", IEEE Globecom '97, Phoenix, Arizona, November, 1997	
	C45	KIOKE, Arata; "TCP Flow control with ACR information", ATM Forum Contribution 97-0758R1, November, 1997	

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First Named Inventor	James Aweya
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	C46	STEVENS, W.; Memo (IETF RFC 2001): "TCP Slow Start, Congestion Avoidance, Fast Retransmit, and Fast Recovery Algorithms", January, 1997	
	C47	KARN, P.; "Dropping TCP acks", Mail to the end-to-end mailing list, February, 1998	
	C48	ASTROM, K.; HAGGLUND T.; "PID Controllers: Theory, Design and Tuning", Instrument Society of America, 1995, pp. v, 80-81	
	C49	RAMAKRISHNA, M.V.; FU, E.; BAHCEKAPILI, E.; "Efficient Hardware Hashing Functions for High Performance Computers", pp. 1378-1381; IEEE Transactions on Computers, Vol. 46, No. 12, December 1997	
	C50	JAIN, Raj; "A Comparison of Hashing Schemes for Address Lookup in Computer Networks"; pp. 1-17; Technical Report DEC-TR-693 Digital Equipment Corporation, February 1989	
	C51	McKENNEY, Paul E.; "High-Speed Event Counting and Classification Using a Dictionary Hash Technique"; pp. III-71 - III-75; International Conference on Parallel Processing, 1989	
	C52	CARTER, Larry; FLOYD, Robert; GILL, John; MARKOWSKY, George; WEGMAN, Mark; "Exact and Approximate Membership Testers"; Proc. 10th Annual ACM Symposium on Theory of Computing, pp. 59-65, May 1978	

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